

# Product Data Sheet

No. 3415 - 11/12

## OFF-LINE CONTACT CLEANER HD

AEROSOL AND BULK LIQUID

PRODUCT NUMBERS: 415 - 15 OZ. NET WT. AEROSOL

Product number plus letter designation is as follows:

G = 2 one-gallon cans; F = 1 five-gallon pail; D = 50 gallon drum

### I. GENERAL DESCRIPTION

**Description:** Off-Line Contact Cleaner HD is a high delivery, fast penetrating, fast evaporating, non-chlorinated aerosol cleaner that works on most surfaces without leaving a residue. Safe for use on metal, rubber, glass and matt plastic surfaces. Contact Cleaner is effective in removing oil, grease, wax, dirt, and moisture.

**Benefits:** Use this highly refined cleaner on high-tech electronic hardware PCBs and PWBs. With the extension tube attached, you may access hard to reach crevices and apply high pressure. A unique wetting action cleans the finest instruments, contacts, relays, precision mechanical/ electrical solenoids and other delicate hardware. An excellent water or moisture displacer.

**Application:** May be used on the production line and in service maintenance where the highest purity is required from an industrial cleaner degreaser. Safe for use on electrical components, connectors, contacts, magnetic tape heads, semiconductor assemblies, office equipment, printer circuits, computer components, relays and controls, telephone equipment typewriters, and TV tuners.

**Directions:** Aerosol: Simple to use, spray on and let dry. No rinsing or wiping needed, dries in less than 2 minutes. Test a small area to assure compatibility on painted surfaces, specialty rubber, plastics, and laminates. Product should be sprayed from a distance of 4 to 6 inches from surface at temperatures between 50° and 90°F (10° to 32°C). Bulk: Apply with a clean sprayer, cloth, or by dipping. Do not use on electrical equipment or machinery while in operation. Wait 5-10 minutes to allow solvents to evaporate before energizing equipment.

**Limitations:** Please refer to the Safety Data Sheet for specific information on material hazards, etc. At temperatures below 40°F (4°C), aerosol propellant pressure is diminished. For use in manufacturing facilities. **Contact Cleaner is flammable, so it should not be used on energized equipment.**

#### Packaging:

Aerosol:	Cans (211x713)	15 oz. net wt. (425 grams)	20.0 fl. oz. (592 ml)
	12 cans/case	17 lbs. (7.7 kg)	0.55 CF (0.016 CM)
Bulk:	2 gallons/case	14 lbs. (6.3 kg)	0.50 CF (0.014 CM)
	5-gallon pail	38 lbs. (17.3 kg)	1.2 CF (0.034 CM)
	50-gallon drum	375 lbs. (170.5 kg)	8.5 CF (0.24 CM)

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## II. CHARACTERISTICS & PROPERTIES

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**Specifications:**

None

**Appearance:**

Thin, non-foaming

**Color:**

Colorless, transparent

**Odor:**

Mild

**Dry Schedule:**

Not applicable

**Performance and Chemical Properties:**

	<b>Aerosol</b>	<b>Bulk</b>
Weight per gallon .....	5.9 lbs.....	5.7 lbs.
Specific gravity .....	0.7 .....	0.7
Viscosity in centipoise .....	N/A.....	<1cPs
Flammability: Label marking .....	Extremely Flammable.....	Extremely Flammable
Flash point.....	<0° F (-18° C).....	<0° F (-18° C)
Active ingredients by weight.....	95% .....	100%
Volatile Organic Compound level .....	95% .....	695 gm/l (100%)
Operating temperature range.....	50° to 90° F (10° to 32° C) .....	50° to 90° F (10° to 32° C)
Boiling point @ 760mm Hg .....	150° F (66° C) .....	150° F (66° C)
Evaporation rate (Butyl Acetate = 1) .....	8.1 .....	8.1
KB value.....	31 .....	31
Dielectric strength .....	N/A.....	N/A
Surface tension .....	Low.....	Low
Food contact rating .....	N/A.....	N/A

**Base Materials**

Solvents (top two) .....	Hexane, Isopropanol .....	Hexane, Isopropanol
Propellant system.....	Carbon Dioxide.....	N/A

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## III. SHIPPING, STORAGE AND HEALTH

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	<b>Aerosol</b>	<b>Bulk</b>
UN number.....	UN1950.....	UN1993
Proper Shipping Description .....	Aerosols.....	Flammable Liquid, N.O.S. (Hexanes, Ethyl Alcohol)
Hazard Class.....	2.1.....	3
Packing Group .....	N/A.....	II
Limited Quantity .....	Yes.....	Container Size Determines Applicability
Warehouse storage level number .....	NFPA 30B Level 3.....	Flammable liquid class 1-B
Storage temperature .....	32° to 120°F (0° to 49°C).....	32° to 120°F (0° to 49°C)
Shelf life .....	1 to 3 years.....	3 to 5 years
HMIS ratings		
Health .....	2 .....	2
Fire .....	4 .....	3
Reactivity.....	1 .....	0

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## IV. MISCELLANEOUS

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Contains no Ozone Depleting Substances (O.D.S.)

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## V. WARRANTY

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1-year performance warranty on all products from date of purchase. Report to home office or local Aervoe representative for examination. Because Seller cannot control Buyer's handling or use of product, Seller makes no warranty expressed or implied when not used or stored in accordance with directions. Seller shall not be liable for cost of labor, incidental or consequential damages, and this warranty is limited to replacement of product or credit of purchase.

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